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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,534	01/23/2002	Takayuki Toshima	33082M115	3236
	90 04/04/2007 RELL & RUSSELL	•	EXAMINER KORNAKOV, MIKHAIL ART UNIT PAPER NUMBER	
1850 M STREET	, N.W., SUITE 800			
WASHINGTON,	, DC 20036	•		
			1746	
		2		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONT	THS	04/04/2007	PAI	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/052,534	TOSHIMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michael Kornakov	1746	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	N. mely filed in the mailing date of this communicat ED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 12 Ja	anuary 2007.		
2a) This action is FINAL . 2b) ⊠ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pr	osecution as to the merits	is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-19 and 35</u> is/are pending in the app	lication.		
4a) Of the above claim(s) 10-19 is/are withdraw	n from consideration.		
5) Claim(s) is/are allowed.	,		
6)⊠ Claim(s) <u>1-9 and 35</u> is/are rejected.	·		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers		-	
9) ☐ The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcti	• • • • • • • • • • • • • • • • • • • •	·	(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).	
1. Certified copies of the priority documents			
2. Certified copies of the priority documents	• •	· · · · · · · · · · · · · · · · · · ·	
3. Copies of the certified copies of the prior	•	ed in this National Stage	
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •		
* See the attached detailed Office action for a list of	or the certified copies not receive	eu.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 01/12/2007. 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/12/2007 has been entered.

2. Claims 1-19, 35 are currently pending. Claims 10-19 are withdrawn from consideration as being drawn to non-elected invention. Claims 1-9, 35 are examined on the merits.

Claim Objections

3. Claim 9 is objected to because of the following informalities: the identifier of claim 9 indicates "Previously presented". Apparently, ---currently amended---, should be written. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 1-9, 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oka et al (U.S. 6,431,190) in view of Akimoto (U.S. 5,868,865) and in further view of JP61-98351.

The combined teaching of Oka/Akimoto provides an object processing apparatus comprising the structural elements as instantly claimed. The teaching of Oka/Akimoto has been presented in the previous office action and is fully incorporated here. The teaching of Oka/Akimoto remains silent about the rear shielding plate 15 (reads on "a lower side member", as instantly claimed) comprising a layer of hydrophobic resin on a surface of the rear shielding plate body.

JP'351 teaches substrate processing apparatus for processing a substrate with processing liquid fed to the substrate. The apparatus of JP'351 comprises plate shaped bodies (shielding plates) facing both sides of the substrate, wherein the processing

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liquid is supplied into each space formed between the plate body and surface of the substrate (Fig. 1). JP'351 specifically indicates that plate shaped body made of Teflon (hydrophobic resin) improves wetting of the substrate by processing liquid supplied into the narrow space between the plate body and surface of the substrate (Abstract; page 2). Therefore, since both Oka/Akimoto and JP'351 are concerned with providing a processing liquid into the narrow space between the substrate and the shielding plate and JP'351 teaches that hydrophobic surface of the plate shaped body enhances wetting of the substrate by processing liquid supplied into the narrow space between the substrate and plate, one skilled in the art motivated by JP'351 would have found obvious to provide hydrophobic resin onto the surface of the rear shielding plate in order to improve wetting of the object while processing it with the apparatus of Oka/Akimoto.

Response to Arguments

7. Applicant's arguments, dated 01/12/2007 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Kornakov whose telephone number is (571) 272-1303. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

M. CONTROL Michael Kornakov Primary Examiner Art Unit 1746

03/29/2007